

Patent Abstracts of Japan

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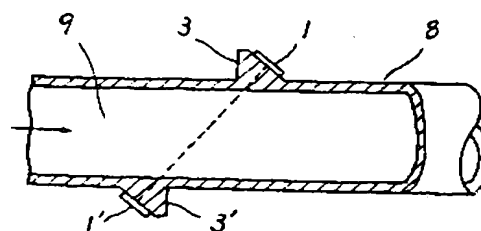
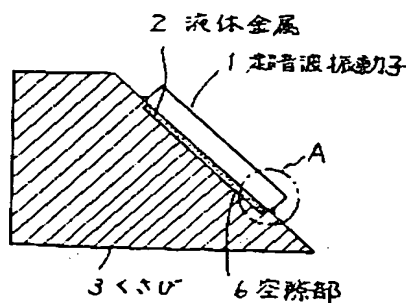
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APPLICATION NUMBER : 63287312

APPLICANT : TOSHIBA CORP;

INVENTOR : YOSHIDA TAKASHI;

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TITLE : ULTRASONIC SENSOR FOR HIGH TEMPERATURE



ABSTRACT : PURPOSE: To measure the flow rate of high-temp. fluid with high accuracy by providing a recessed part in the wedge part of an object to be measured and sealing the liquid metal of an ultrasonic propagation medium therein.

CONSTITUTION: The recessed part is provided in the wedge part 3 of the object to be measured and a gap part 6 is formed to the joint surface of an ultrasonic oscillator 1. A liquid metal 2, such as NaK, is sealed as the ultrasonic propagation medium into the gap part 6. The medium does not, therefore, flow out, unlike in the case of using oil, such as grease, and the ultrasonic sensor for high temp. which can measure the flow rate of the high-temp. fluid, such as liquid Na, for cooling around a boiler in thermal power generation or atomic power generation or a high-temp. breeder is obt'd.

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